

**Amendments to the Specification:**

Please amend the specification as follows:

Please replace paragraph starting at page 1, line 5, with the following rewritten paragraph:

The invention relates to a heat exchanger, in particular for motor vehicles, with a soldered heat exchanger network consisting of flat tubes and of corrugated ribs, ~~according to the preamble of patent claim 1, known from US A 5,271,458.~~

Please replace paragraph starting at page 3, line 3, with the following rewritten paragraph:

~~The solution to this object arises from the features of patent claim 1.~~ According to the invention, the known corrugation crest formed by a constant curvature is replaced by an arcuate piece which is composed of three portions having different curvatures. The middle portion has a comparatively low curvature, that is to say it has an almost planar design and therefore bears as much as possible against the outer surface of the tube wall. The radius of curvature of the arcuate piece is preferably greater in the middle region than a rib height RH of the corrugated rib, especially preferably 5 to 15 times the rib height RH.

Please replace paragraph starting at page 4, line 18, with the following rewritten paragraph:

Further advantageous refinements of the invention ~~as claimed in subclaims 4 to 7~~ yield further power increases, particularly in the case of a tube/rib system with a depth of 12 to 20 mm and with a rib density of 55 to 75 ribs/dm, this corresponding to a rib spacing or a rib division of 1.33 to 1.82 mm. The rib height for this system is in the range of 3 to 15 mm, especially preferably in the range of 6 to 10 mm.